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PUMPING RATES AND PIEZOMETER LEVEL GRAPHS

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February 10, 2004

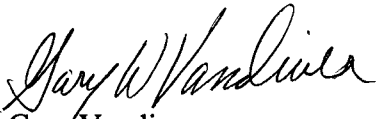
Mr. Nabil S. Fayoumi  
U. S. EPA - Region 5  
77 West Jackson Boulevard (SR-6J)  
Chicago, Illinois 60604-3590

**Re: Sauget Area 2 Site – October 3, 2002 Unilateral Administrative Order  
(UAO) Groundwater Operable Unit  
# 14 - Monthly Report; January 1 - January 31, 2004 Reporting Period**

Dear Mr. Fayoumi,

Attached is the Monthly Report for the Sauget Area 2 Site October 3, 2002 Unilateral Administrative Order (UAO) - Groundwater Operable Unit. This submittal is in fulfillment of the monthly reporting requirements of the UAO, Section XII, paragraph 62, Progress Reports. This report is for the January 1 - January 31 reporting period.

Sincerely,

  
Gary Vandiver  
Project Coordinator

cc: Bardo, Ken - U. S. EPA  
Sandra Bron – IEPA  
Richard Williams – Solutia  
Cathleen Bumb – Solutia  
Mayor Frank Bergman – Cahokia  
Village of Sauget – c/o P. H. Weis & Associates (Attn: Brian Nelson)  
Mayor P. Sauget - Sauget, IL  
Mike Coffey - U. S. Fish & Wildlife Service  
Jeff Klieve - Monsanto

## **Sauget Area 2 Site - Sauget, Illinois**

### **October 3, 2002 UAO – Groundwater Operable Unit**

#### **Monthly Report**

**Date of Report:** February 10, 2004  
**Period Covered:** January 1 - January 31, 2004

#### **Agency Actions / Communications**

*In an e-mail message dated June 19, 2003, U. S. EPA requested the submission of revised versions of the Focused Feasibility Study, the Remedial Design Work Plan, and the Pre-Final (95%) Remedial Design. The revisions were required to allow the use of a slurry wall rather than jet grouting for construction of the barrier wall. The revised documents were submitted on July 3, 2003. The ESD was issued by US EPA on July 30, 2003. The Final Design Submittals were approved by EPA on October 16, 2003.*

#### **Work Performed During the Reporting Period**

##### **Slurry Wall**

- Total excavation through December = 217,982 sq ft. This does not include the area around the Ranney well which is ~ 7880 sq ft.
- Total backfill placed through December = 107,914 sq ft.

Excavation during January was to remove remaining peaks from the southwest corner at approximately Station 10+50. Backfill was placed when the weather allowed. No work was performed during the final week of the month due to cold, icy conditions. The trench profile is attached.

##### **Groundwater Treatment**

- The Sauget Area 2 Groundwater Migration Control System pumped at a variable rate in January based on river level.
- Effluent pumping data for each well is attached. The river level is quite variable and therefore the pumping rates are variable.
- On Friday January 23, the control logic was changed to control groundwater level to +0 to -12" of river water level. It had been controlling at  $\pm 6"$  of river water level.
- Other control points are being considered since river level changes so rapidly.

- The ROD specifies:

*"Pumping rates will be adjusted so that water-level elevation in the inside piezometer is the same as the water-level elevation in the outside piezometer. This will ensure that groundwater moving to the physical barrier is controlled."*

- Measurement of inside and outside piezometer levels can demonstrate control even though the barrier wall is not complete. Proposed changes will be forwarded to the Agencies.
- Piezometer and pumping data will be forwarded to the Agencies weekly.
- The pump at Extraction Well EW-2 stopped working on January 30. A short was detected in the motor. A service crew was scheduled to be onsite on Monday, February 2, 2004, to repair the motor.

### **Schedule**

No slurry wall work was performed during the final week of January due to cold, icy conditions. No improvement is foreseen in the near future. Plans are being developed to suspend work and minimize cost until there is a substantial improvement in weather conditions.

### **Submittals in December**

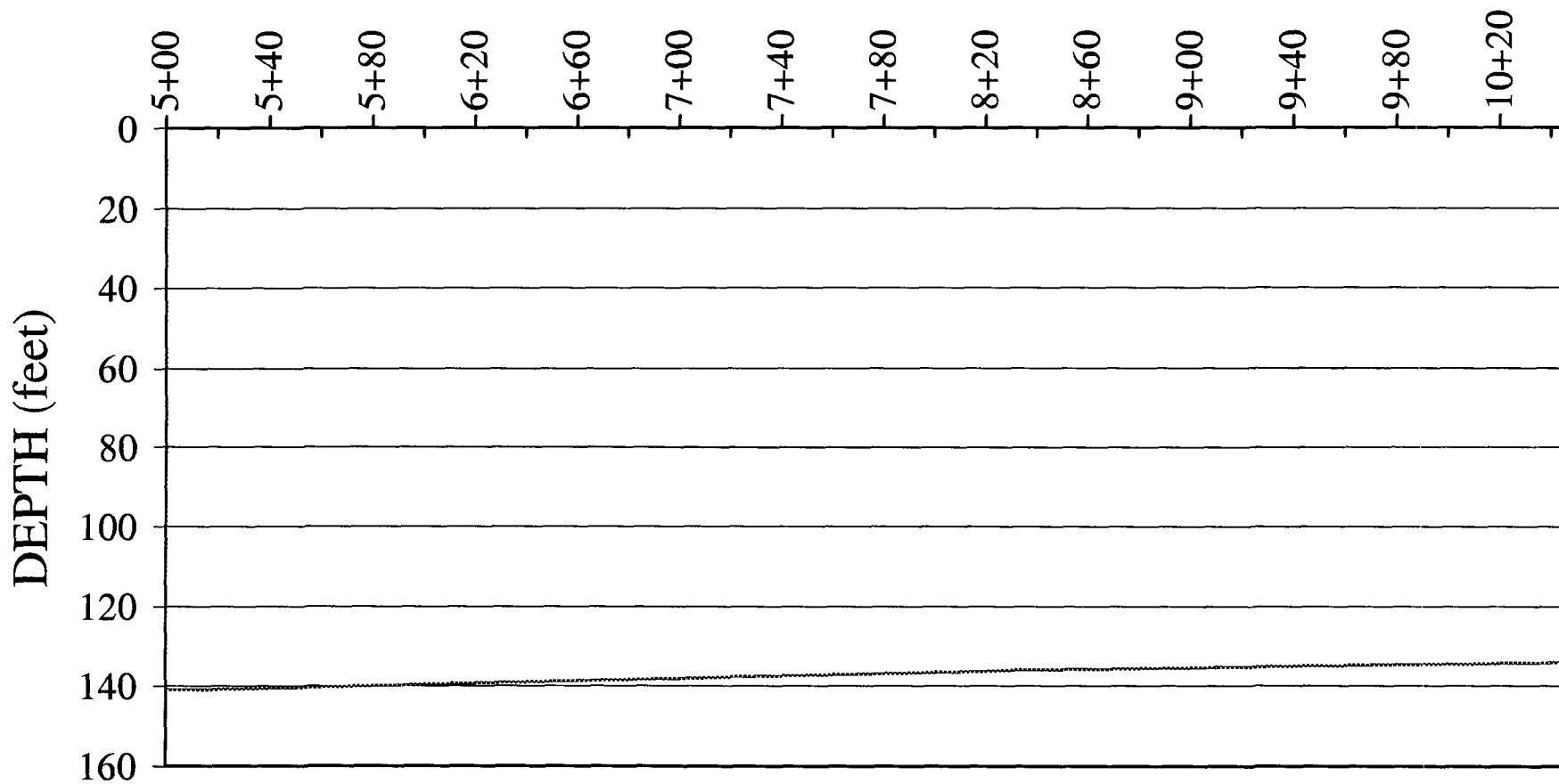
- Project Closure Plan, Barrier Wall, GMCS, Sauget, IL submitted on January 23, 2004.

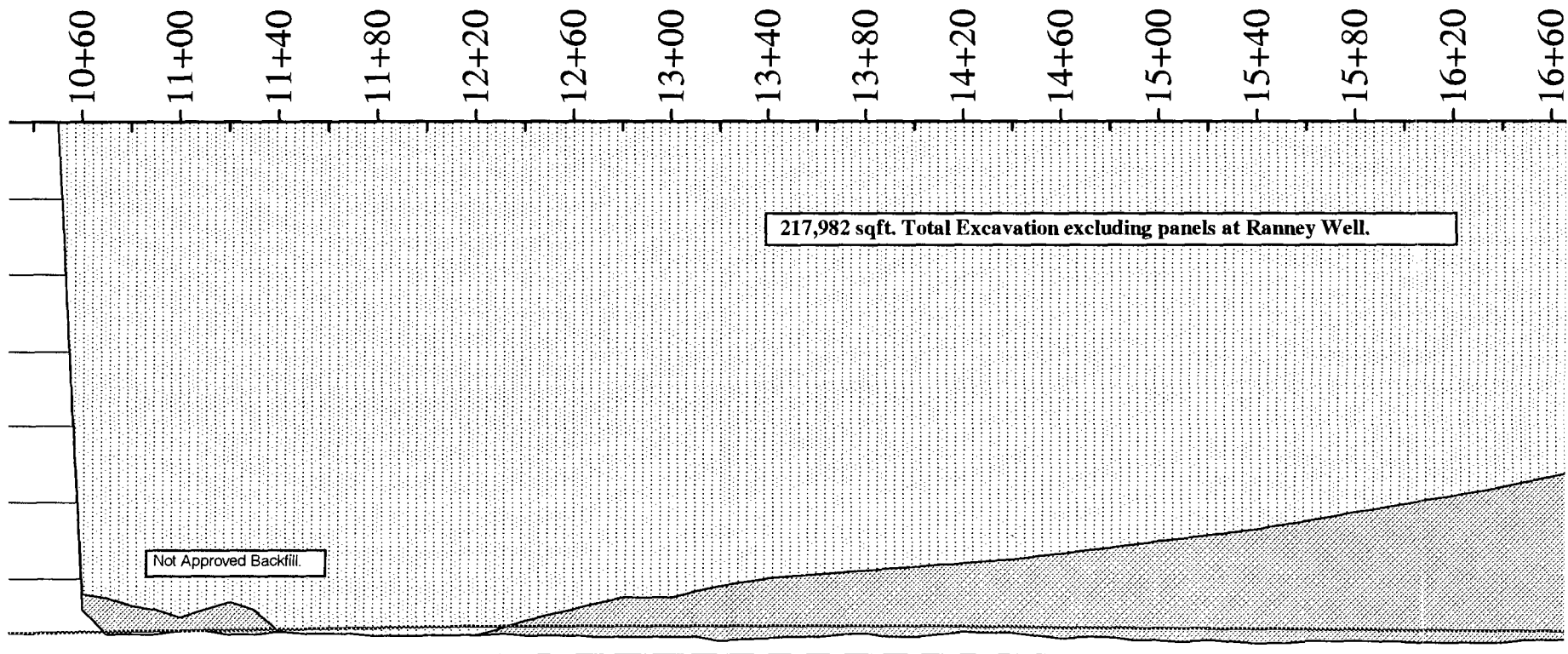
### **Work Scheduled for Next Reporting Period**

Continue pumping and treating groundwater based on river level.

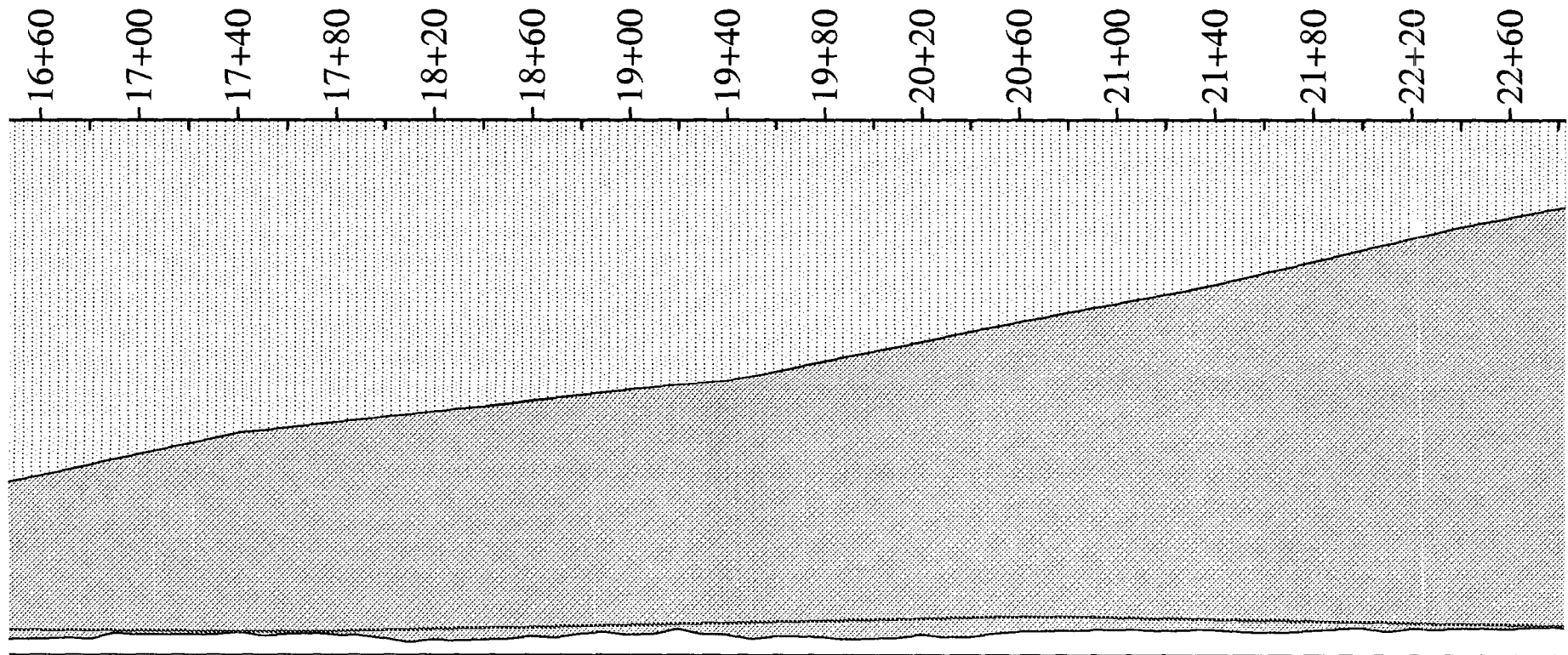
Initiate cold weather suspension of work. The Liebherr 843 crane with KS 3000 clamshell bucket will be demobilized immediately. This crane is rented from Soletanche and will not be needed to complete construction. Most of the small equipment, i.e. dozers, short stick track hoes, trucks, etc, will be demobilized. Most of the workforce will be furloughed. A minimum crew will be on site 3-5 days per week for slurry maintenance and stormwater control

## **SLURRY WALL PROFILE**



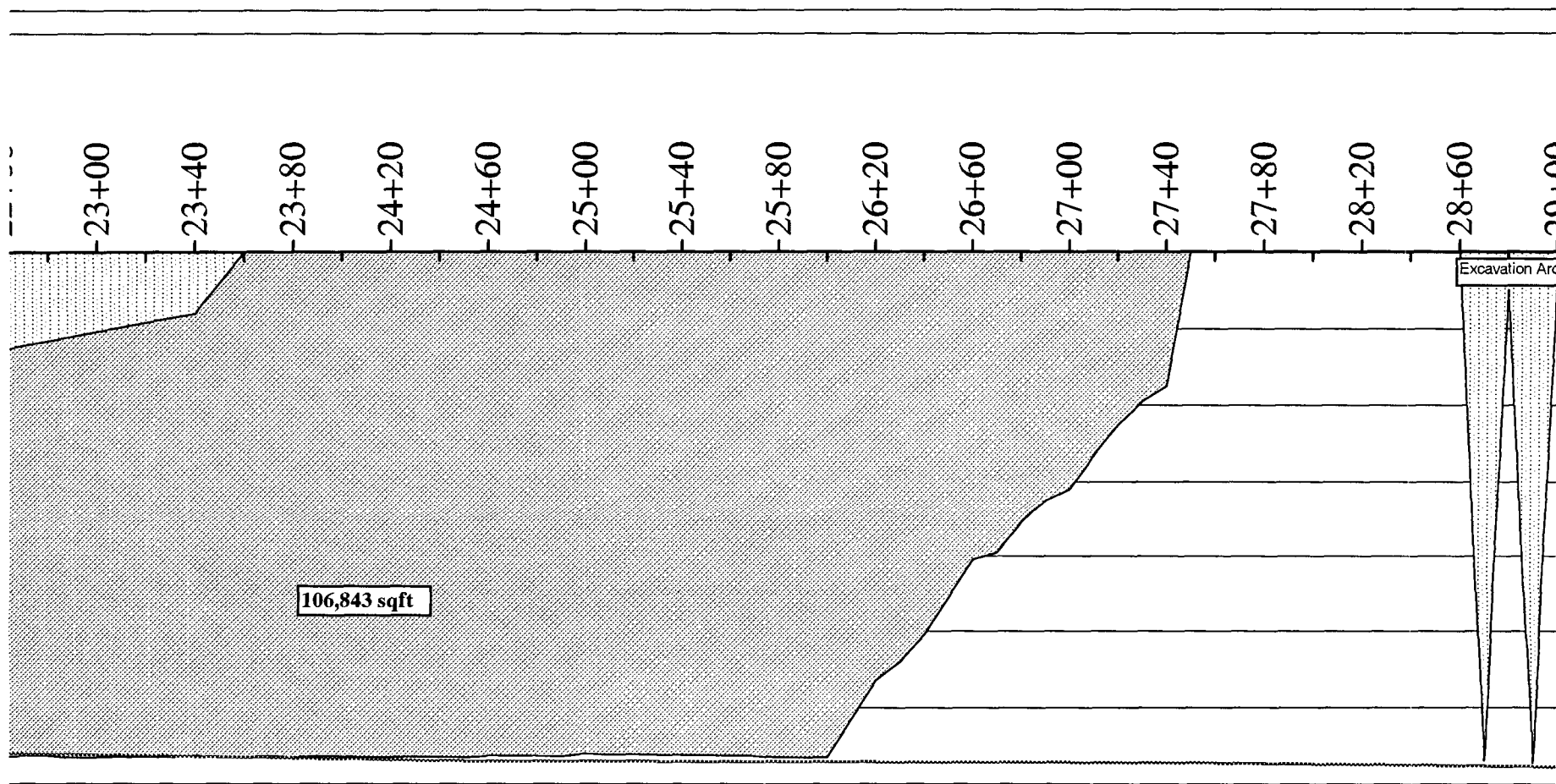


## SURVEY STATIONS

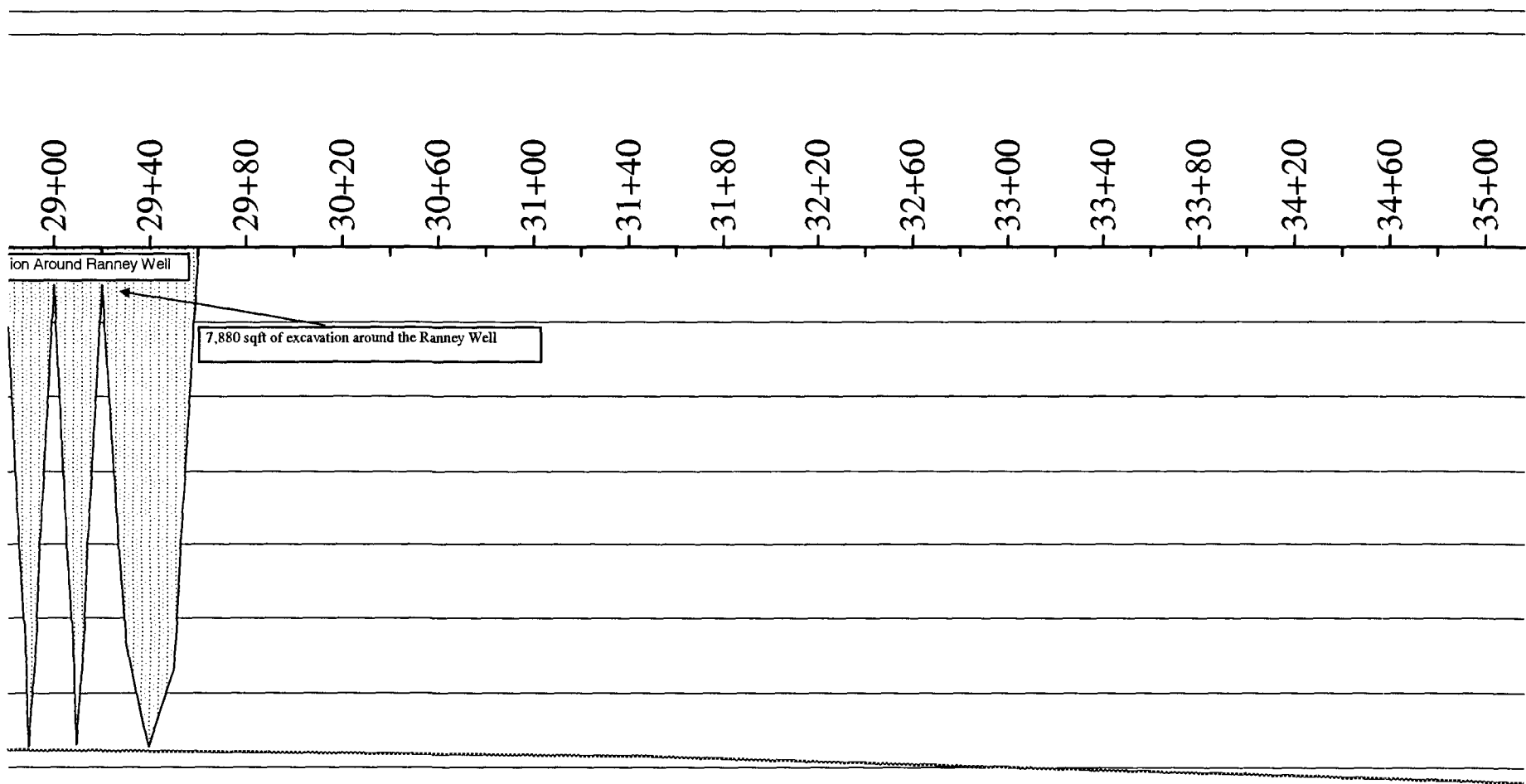


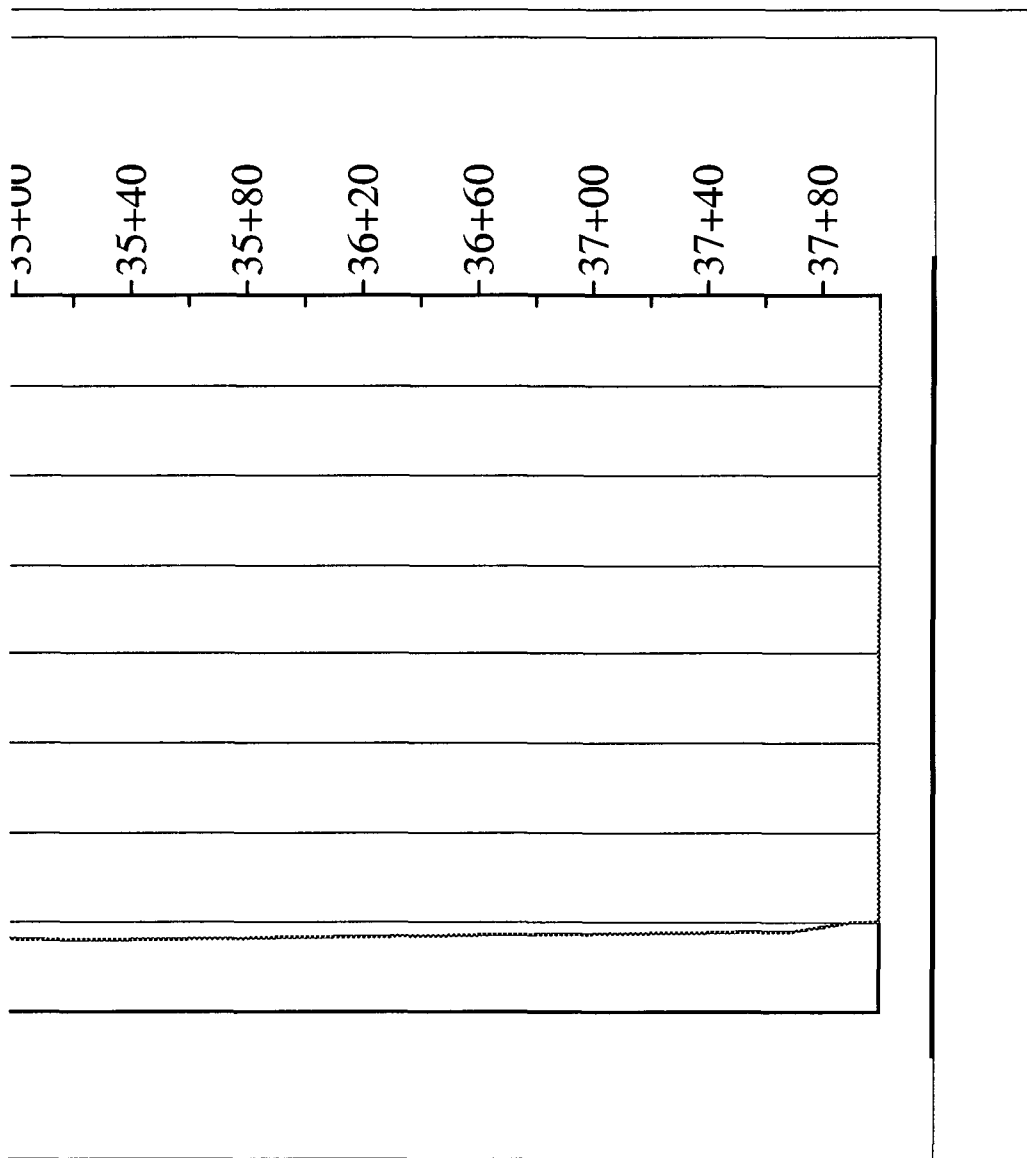
■ Backfill Area ■ Excavation Area □ Est. Bedrock





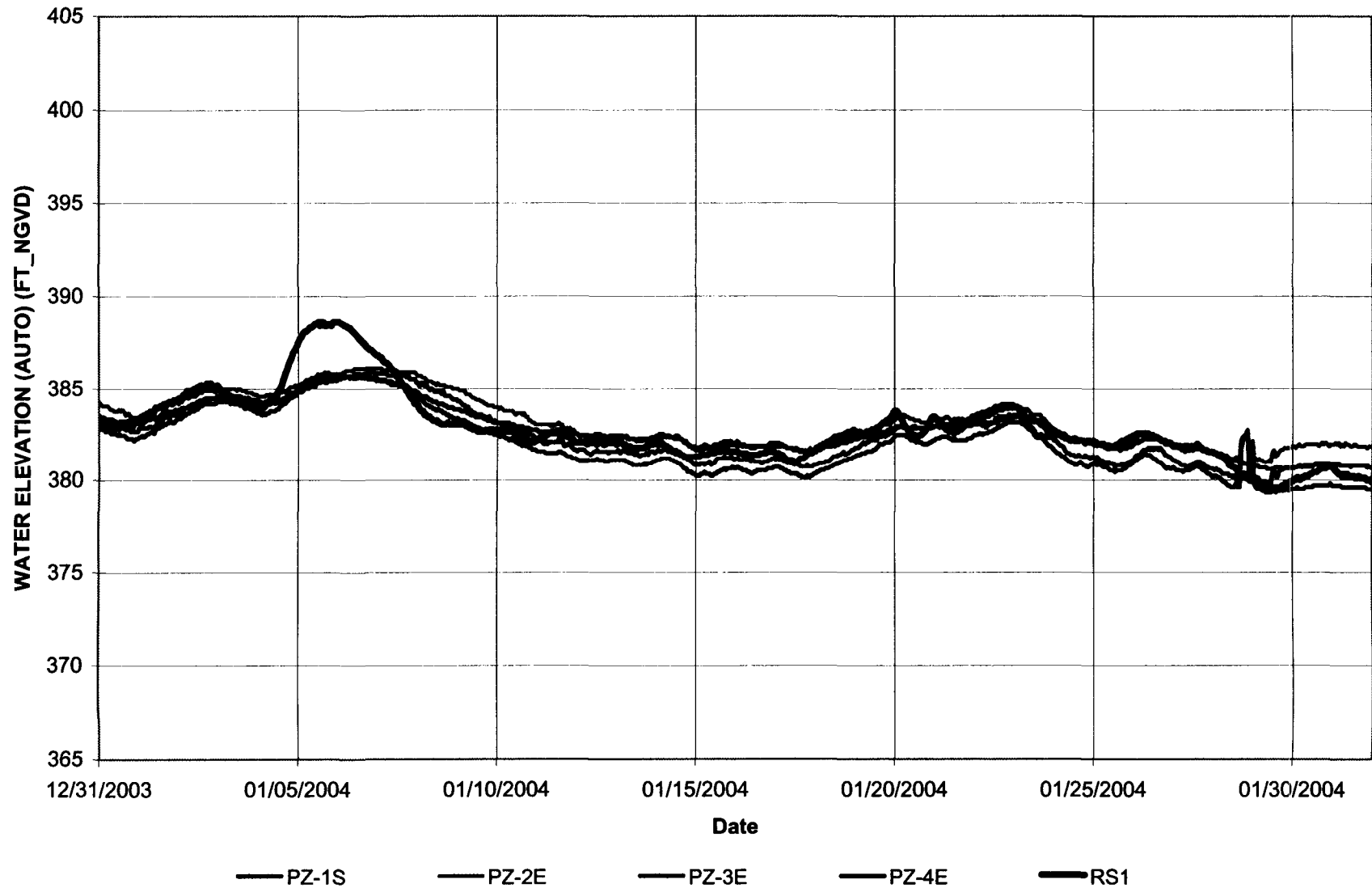
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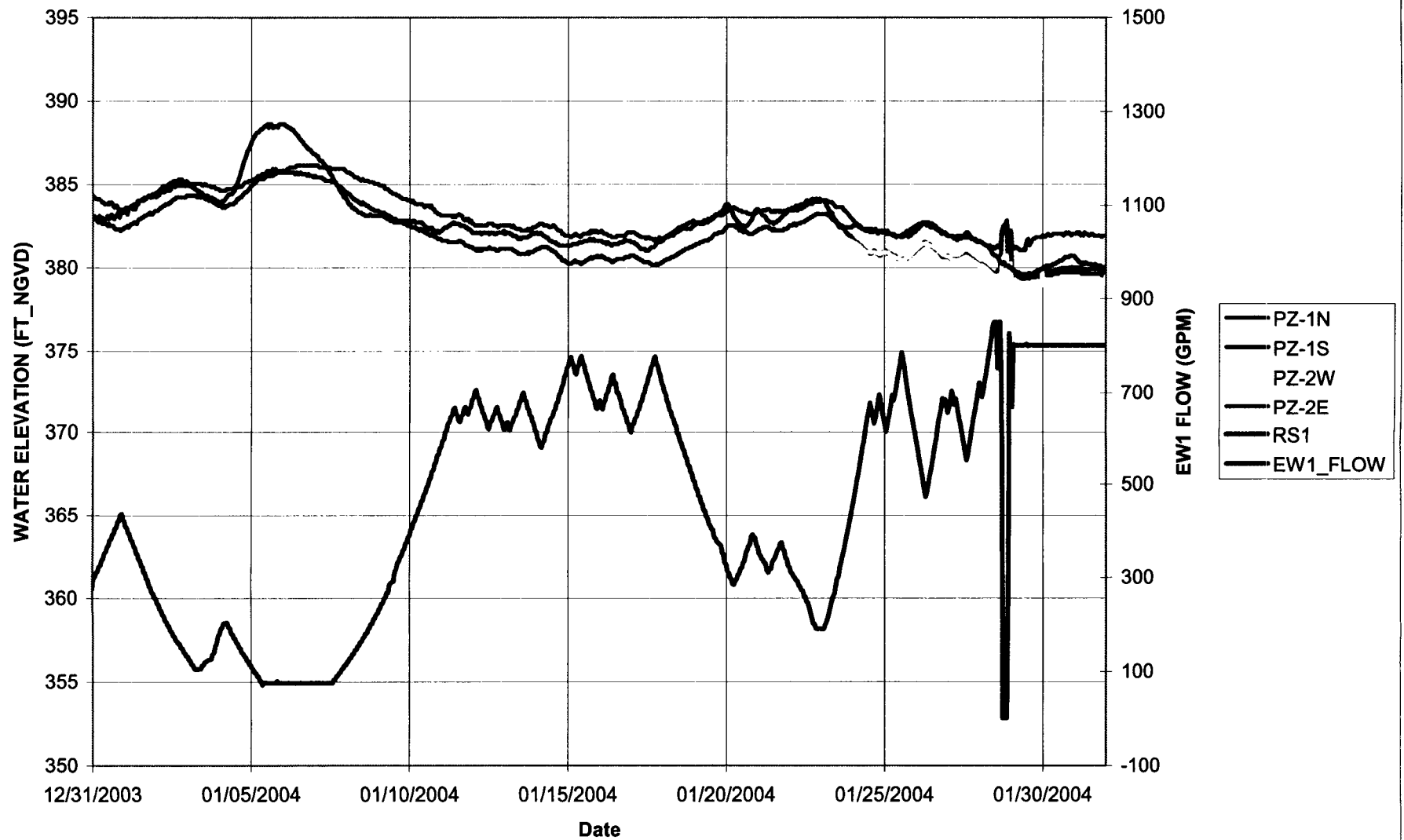


## **PUMPING RATES AND PIEZOMETER LEVELS**

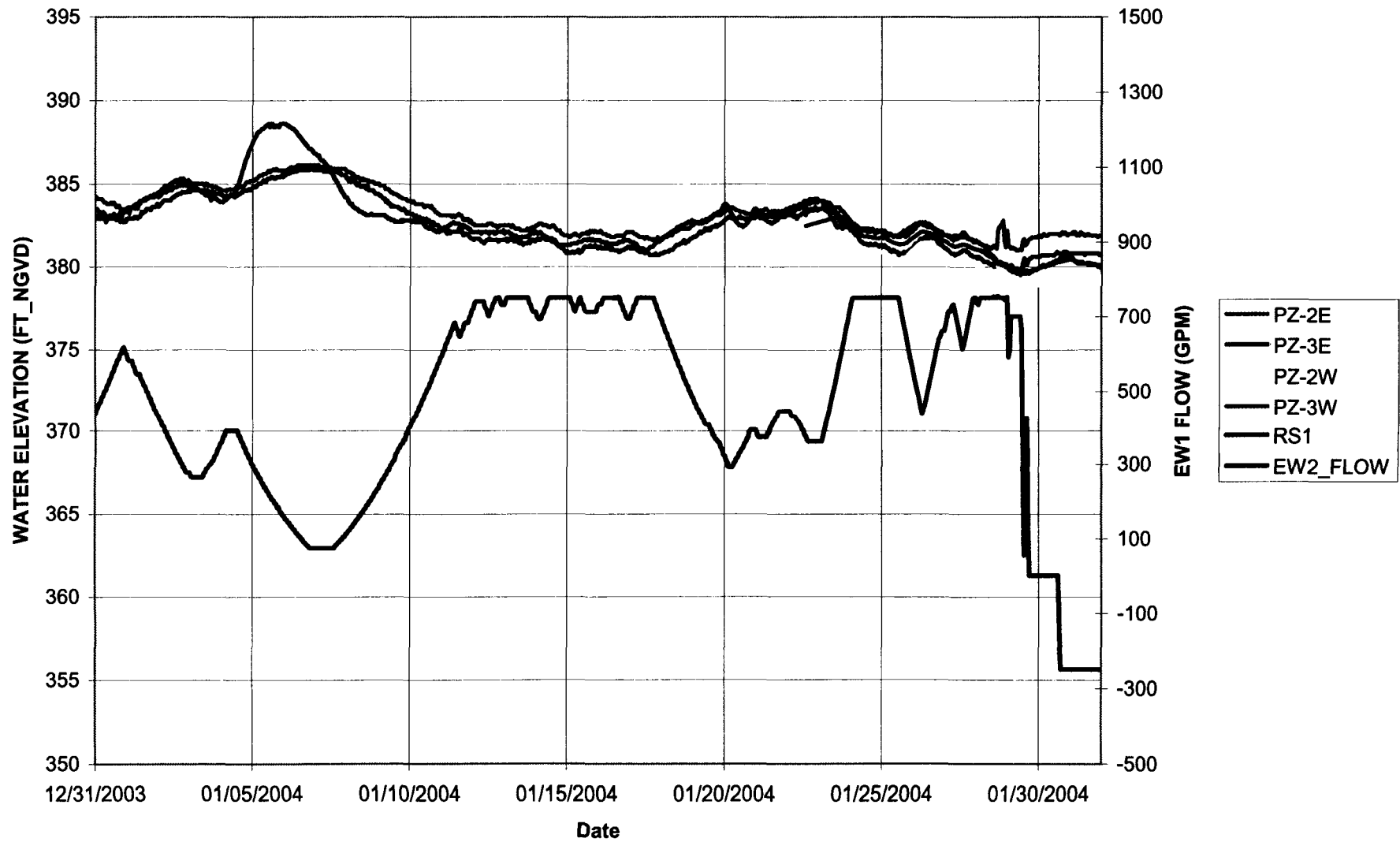
# Water Elevations



EW1 WATER ELEVATION AND FLOW PLOT



EW1 WATER ELEVATION AND FLOW PLOT



# EW3 WATER ELEVATION AND FLOW

